19” LED SECURITY MONITOR

LED-HDMI1906-MA

LED-HDMI1906-MA+

User’s Manual

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Welcome

Thank you for purchasing the **19” LED Security Monitor**.

This user’s manual is designed to be a reference tool for the installation and operation of the device.

Here you can find information about the corresponding model’s features and functions, as well as detailed instructions on how to operate the device.

Before you operate the device please read the following safeguards and warnings carefully!

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1 General information

1.1 Product description and type of use

The LCD LED color monitor is designed to be very durable and comes with a hardwearing case structure. It is also ideal for continuous operation and can be used in closed circuit TV systems without risks of excessive operational degradation. The Flat Panel Display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD).

1.2 General features

- Display area
- Wall mounting (bracket not included)
- Audio input/output sockets
- HDMI video input
- Two composite video input channels (BNC) & one composite video output channels (BNC).
- Wide inclination/viewing angle to allow you to view either from a seated position, when standing up or when moving from one position to the other.
- Multilingual OSD menu for easy setup and optimisation of the display.

1.3 Opening the box

Check that the packing and the contents are not visibly damaged. Contact the retailer immediately if parts are either missing or damaged. Do not attempt to use the device if you do find that there are parts missing or the device is damaged. Send the product back in its original packing, if it is damaged, to the supplier.

1.4 Contents of the box

- LCD monitor
- Remote Control (Optional)
- Power unit 12VDC 4A
- Power cable
- VGA cable
- Audio cable
- Instruction manual

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2 Warnings

2.1 Power

- Only use the power unit provided to power the device. Check the mains voltage rating before plugging the power unit in.
- Do not pull the cable to unplug the device. Grip the plug end firmly and slowly pull out of the monitor.

2.2 Safety precautions

- Keep the device away from rain and atmospheres with a high humidity, to prevent risk of fire and electrocution. Do not introduce material (either solid or liquid) to the interior of the device. If this should accidentally occur, disconnect the device from the mains IMMEDIATELY and have it inspected by qualified personnel.
- Never open the device. In all cases, contact the qualified personnel or authorised service center for repairs.
- Keep the device away from children, to prevent accidental damage.
- Do not touch the device with wet hands so to prevent electrical shock or mechanical damage.
- Do not use the device if the external casing is damaged from a fall or impact from a heavy/forceful object. There is a risk of electrocution if the device is continued to be used when the casing has been compromised. In all cases, contact the qualified personnel or authorised service center for repairs.
- It is advisable to disconnect the power wire if the monitor is not used for a certain time.

2.3 Installation precautions

- To prevent the device from overheating, locate it in a position where there is an allowance of air flow through the slots in the casing. Ensure at least 5 cm of free space when installing inside a rack. For the same reason, do not install near sources of heat, such as radiators or hot air ducts. Keep away from direct sunlight. Do not install in areas subject to excessive dust, mechanical vibrations or shocks.
- Do not arrange this device on an unstable surface, such as a unbalanced or slanted table. The device could fall causing injury or mechanical failures.
- Do not install the device in a place where it could be exposed to humidity or water. Do not direct a jet of water onto the device: risk of fire, electrocution or even mechanical failure.
- Stop using the device if water or other material should penetrate inside; risk of fire and electrocution. Contact the retailer or authorized installer.
- Slots and openings in the cabinet are provided for ventilation. These openings

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must not be blocked or covered.

- Do not place heavy or heat generating objects on top of the device: this could damage the casing and/or increase internal temperature causing faults.
- Do not cover the device with a cloth while it is running to prevent deforming the external casing and overheating the internal parts. This could raise the risk of fire, electrocution and mechanical failure.
- Keep magnets and magnetised objects away from the device to prevent faults.
- Do not use the device in the presence of smoke, vapor or dust.
- Wait for a while before operating a device immediately after transporting it from a cold place to a warm place and vice versa. Wait on average for three hours: this will allow the device to adapt to the new ambient (temperature, humidity, etc.).
- The monitor is provided with a plastic base and rubber feet. It can be positioned on a horizontal surface, such as a desk or a table. Make sure that the device is fastened firmly and that it is not resting on unstable supports or surfaces.
- Remember to adjust the brightness and contrast to obtain a perfect image.
- The monitor can also be installed on the wall by means of a bracket (not provided).

2.4 Cleaning the device

- Rub delicately with a dry cloth to remove dust and dirt.
- Dip the cloth in neutral detergent if dirt cannot be eliminated with a dry cloth alone.
- Do not use volatile liquids (such a petrol, alcohol, solvents, etc.) or chemically treated clothes to clean the device to prevent deformation, deterioration or scratches to the paint finish.

2.5 Privacy and copyright

- The LCD monitor is a device for CCTV systems. Recording of images is subject to the laws in force in your country. Recording of images that are protected by copyright is forbidden.
- Product users shall be responsible for checking and respecting all local rules and regulations concerning monitoring and recording video signals. The manufacturing SHALL NOT MADE BE LIABLE for use of this product not in compliance with the laws in force.

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3 Controls & Settings

3.1 Controls:

3.1.1 Control key board:

Control Key	Function
INPUT	Use this to select the video input source and confirm your choice in an on-screen menu.
MENU	Use this to display the main on-screen menu.
"∧" "∨"	Use this to select a menu or an item.
"<" ">"	Use this to change parameters
Power	Use this switch to turn on the monitor. Press this button again to turn off the monitor.

NO SIGNAL means that there is no connected video signal being detected from the input port.

The indicators display the status of the power:

Indicator	Status
Lit (Red)	Power off
Lit (Green)	Power on
Blinking (Red):	Power saving mode

3.1.2 Power connector (DC)

Plug the power wire of the adapter provided into the respective DC power port.

3.1.3 Power BUTTON

This is used to switch the monitor on and off. The blue LED lights up when the monitor is on, when it is in red it means that it is in standby mode.

3.1.4 Volume buttons (< >)

These keys allow you to change the volume (">" button increases the volume, "<" button decreases the volume).The "Menu" button also allows you to confirm each setting.

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3.1.5 Menu button (MENU) and confirm

This is used to access and quit the OSD (On-Screen Display) Menu and to confirm the selected settings.

3.1.6 Video input selection button [1]

To select the desired signal (”PC”, “HDMI”, “BNC1” or “BNC2”) press the either ∧ or ∨ buttons and select the desired items with either the ∧ or ∨ buttons. Press either ″>″ or ″<″ buttons to confirm.

3.1.7 HDMI input

This HDMI port (High Definition Media Interface) allows the connection of a HDMI signal and an audio signal, coming from an external source provided with an HDMI output

3.1.8 PC signal input (VGA)

PC input.

3.1.9 Audio input/output (VGA)

Jack plugs audio input/output.

3.1.10 BNC1 - BNC2 video inputs

These inputs allow the connection of video signals coming from external sources.

3.1.11 BNC1 - BNC2 video output

This BNC output allows the repeating of the BNC1-BNC2 video signals to another video input (another monitor or DVR).

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3.2 OSD CCTV menu controls

Open the menu interface using the **[Menu]** button in order to access the menus, submenus and their functions

Selection of the video input

- In order to show the possible video inputs, press the **[INPUT]** button.
- In order to scroll through the options, use **[> <]** buttons.
- In order to confirm the selection press the [∧ ∨] buttons to select items and use [**> <**] button to change the items.

Selection of the Menus

- In order to show the main Menu, press the **[Menu]** button.
- In order to select the Menus of the horizontal bar, press the [∧ ∨] buttons.
- In order to select each single Menu, press the **[> <]** button.
- In order to change a value (once the option is selected), press the **[> <]** buttons.
- In order to exit from menus and submenus, press the **[Menu]** button.

Volume adjustment

In order to vary the volume without entering the OSD Menu please use the **[> <]** buttons.

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3.2.1 Picture

When selecting the icon, the following screen will appear (this will depend on the signal type):

AV/HDMI (Pic1)

CONTRAST

This allows you to change contrast between the white and black areas of the image. A clear resolution of good white, black and grey gradation is achieved by setting of contrast correctly or to your preference. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

BRIGHTNESS

This allows you to change image brightness, according to ambient light. Press **"∧" or "∨"** buttons to select and press **">" or "<"** buttons to change the values of this parameter.

HUE

Only used in the NTSC system.

COLOR

This allows you to change the colors of the image. Press **"∧" or "∨"** buttons to select and press the **">" or "<"** buttons to change the values of this parameter.

SHARPNESS

This allows you to optimise the image's sharpness parameters according to ambient light. Press **"∧" or "∨"** buttons to select and press the **">" or "<"** buttons to change the values of this parameter.

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COLOR TEMP.

This allows you to change the color settings among the following options: **"Warm – Cool – Normal**". Press **"∧" or "∨"** buttons to select and press the **">" or "<"** buttons to change the values of this parameter.

SCALE

This allows you to change the video format of the images among: "Full, 4:3, Zoom2, Zoom1". Press **"∧" or "∨"** buttons to select and press the **">" or "<"** buttons to change the values of this parameter.

PICTURE MODE

This allows you to change the image settings among the following options: "**User -Vivid -Soft - Standard**". Press **"∧" or "∨"** buttons to select and press the ">" or "<" buttons to change the values of this parameter.

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3.2.2 Sound

Selecting the icon, the following screen will appear.

BASS

This allows you to adjust the bass levels of the sound. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

TREBLE

This allows you to adjust the treble levels of the sound. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

BALANCE

This allows you to balance the sounds of the two speakers. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

SOUND MODE

It allows to change the sound settings among the following options: "**User -Music -Movie - Standard**". Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

AUTO VOLUME

This allows you to optimise the sound effects so you can avoid unwanted peaks.. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

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3.2.3 System

Selecting the icon, the following screen will appear:

OSD LANGUAGE

This allows you to select the desired language: "**English-Deutsch-French-Spanish-Russian-Italian**". Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

OSD DURATION

This allows you to set the OSD duration time on the screen. Press **"∧" or "∨"** buttons to select and press **">" or "<"** to change the values of this parameter.

MENU TRANSPARENCY

This allows you to set the OSD transparency time on the screen. Press **"∧" or "∨"** buttons to select. Press **">" or "<"** to change the values of this parameter.

BACKLIGHT

This allows you to adjust the brightness of the monitor panel/screen. Press **"∧" or "∨"** buttons to select. Press **">" or "<"** to change the values of this parameter.

Reset

This allows you to reload the factory defaults. All the user settings will be lost.

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3.2.4 Functions

Selecting the icon, the following screen will appear (depending the signal type):

COLOR RANGE

The colour range is **16 – 355,** and it will allow you to adjust the range value by pressing **“>” or “<”.**

NOISE REDUCTION

This allows you to enable/disable the noise filter with three possible values: HIGH -LOW -MID
Press **“Λ” or “V”** buttons to select and press **“>” or “<”** to change the values of this parameter.

AUTO ADJUST

This automatically adjusts the size of the images on the monitor.

UPDATE (USB)

OSD menu firmware can be updated by installing software via a USB storage device attached to the USB port.

4 LCD monitor quality and pixel

The TFT monitor uses high-precision technology, manufactured according to industry standards, to guarantee trouble-free performance. Nevertheless, the display may have cosmetic imperfections that appear as small bright or dark spots. This a common matter related to the specific nature of TFT technology which determines the possible presence of discontinuity on the screen and is not specific to products.

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5. Product Specifications

Display Specification	
Panel Type	19" (4:3) LED Backlit Monitor
Case Type	Metal
Best Resolution	1280 (H) x 1024 (V)
Active Display Area	376.32(H) x 301.06 (V) mm
Pixel Pitch	0.294 (H) x 0.294 (V) mm
Contrast Ratio	1000:1
Brightness	300 cd/m²
Response Time	5ms
Viewing Angle	Up/Down: 80° / 80°, Left /Right: 85° / 85°
Display Colours	16.7 Million
PC Compatible Frequency	30-80KHz(H) / 50-75Hz(V)
Adjustable Colour Temperature	9300K / 6500K / 5800K / User
Video Compatibility	Multi-Standard for NTSC / PAL
Aspect Ratio	4 : 3
Speaker Multimedia Speakers	Right x 1 Left x 1, 2.5W
Sound Demodulation	Stereo. Audio
Mute	Yes
Work Humidity	20 % - 70 %
Work Temperature	- 10 to 50 °C
IN/OUT INTERFACE	
Video Interface	HDMI x1, VGA x 1 BNC x 2 In / BNC x1
Audio Interface	Audio in x 1,Audio Out x 1,

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Power Interface	DC In x 1
Termination	75 Ohms (Automatic termination)
Safety & EMC Certification	Energy Star / CE / FCC / ROHS /WEEE
Stand Type	Wall Mounted
Colour	Black
Button Position	Right Hand Side
Dimensions	338 x 396 x 56mm
NET/Gross Weight	5.11KG
POWER	
Power Supply	12VDC, 3 Amp
Voltage	AC100 - 240V 50 / 60Hz
Power Consumption	<25W

IMPORTANT NOTE: Product specifications may be subject to change without prior notice.

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